

dodecylsulfate at 42°C, followed by washing in 0.1X SSPE and 0.1% Sodium dodecylsulfate at 65°C.

Sub D2
and
C1

34. (Amended) An isolated nucleic acid [that is naturally occurring and] that hybridizes under high stringency conditions to a second nucleic acid consisting of the nucleotide sequence set forth in SEQ ID NO:1 that encodes amino acids 24 to 126 of SEQ ID NO:2 and a third nucleic acid consisting of the nucleotide sequence set forth in SEQ ID NO:1 that encodes amino acids 1067 to 1185 of SEQ ID NO:2, wherein said high stringency conditions comprise hybridizing in 5X Denhardt's solution, 5X SSPE and 0.2% sodium dodecylsulfate at 42°C, followed by washing in 0.1X SSPE and 0.1% Sodium dodecylsulfate at 65°C.

C2
Sub D2

38. (Amended) An isolated nucleic acid comprising a nucleotide sequence which encodes a polypeptide comprising at least one of the amino acid sequences selected from the group consisting of: amino acids 1-23, 24-126, 127-225, 226-316, 317-409, 410-506, 507-603, 604-697, 698-792, 793-887, 888-983, 984-1067[1068], 1068[1069]-1185, 1186-1281, 1282-1375, 1376-1471, 1472-1594, 1595-1616, and 1617-1910 of SEQ ID NO:2.

REMARKS

Claims 1 and 31-49 are pending. Claims 33, 34 and 38 have been amended to more particularly point out and distinctly claim the subject matter which the Applicant considers to be the invention. The amendments to the claims are fully supported in the present specification as filed, in particular, claim 33 is supported in the specification as filed wherein an intronless nucleic acid can hybridize to a second nucleic acid, for example on page 12 line 7 to page 13, line 18. Claim 34 is supported in the present specification as filed, in particular in Figure 2, wherein the various domains of the DS-CAM polypeptide are set forth. One of ordinary skill would be able to then determine the corresponding nucleic acid sequences as set forth in SEQ ID NO:1, which encode the specified domains. Claim 38 has been amended to correct an obvious typographical error. These amendments do not introduce new matter.

Claims 44-46 are allowed.